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27/8/81

25X1

COMBINED AGE-GRADE DYNAMIC MODEL Pilot: Commo Technicians

Specifications:

The model displays three age groupings (under 35, 35 to 50, 50 and up) and three grade groupings (GS 5-7, 8-9, 10 and up). The transition matrix is 9x9. The model displays six states of data: recruit (R), separate (W), remain in age and grade group (S), move into next age group (A), move into next grade group (P), and change both age and grade group (P&A). These states are reflected as annual transition rates in a basic matrix while recruitment (R) is distributed as a share vector to the respective age-grade cells. The strength (N) at the beginning of the period is displayed as a vector.

Format:

Grade	5-7			8-9			10+			<u>W</u>
Age	20-34	35-49	50+	20-34	35-49	50+	20-34	35-49	50+	
Col.	1	2	3	4	5	6	7	8	9	

Row Grade Age	
1 20-34 2 5-7 35-49	
3 50+	
4 20-34	
5 8-9 35-49 6 50+	
7 20-34	
8 10+ 35-49	
9 50+	
N Vector	
R Vector (Σ =1.0)	

Data Sources:

IAB has prepared tailor-made computer runs by grade and age (5 yr groups) for strength, promotions, separations, and EODs. The runs were prepared for FYs 79, 80, and 81 (to date). From these, the data were then aggregated into the larger groupings of 3 grade groups and 3 age groups. The corresponding transition rates were then calculated for entry into the matrix.

Model: LBASEQ was used on the HP mini. The data file used was AGMCØM (revised). (In this notation, AG=age/grade, MC = the career service subgroup, Ø=1980 as the most recent data year, and M=methodological development).

Findings: See attached memo.

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26 February 1981

	MEMORANDUM FOR:	Director of Personn Planning, and Manag	el Policy, ement			
25X1	FROM :	DD/HRPI/OPPPM				
	SUBJECT :	Modeling Support fo	r O/Commo			
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	models that were according to gra On the particula a growing concentincrease the number relationships in technicians at j	ached graphics repreused to show five y de structure, age stration of assumptions tration of younger ther at grade 10 (Graughic III. For eourneyman grades (10 perienced technician han 40%. (S)	ear projections of ructure, and combination incorporated into echnicians (Graphic phic II), and some xample, the number and up) would more	O/Commo technic ned age/grade st the models, the c I), a tendency interesting age of younger (age e than double, w	rians ructure. ry show to e/grade 20-34)	
	developmental ef because we have age and grade. interest to mana impact of grade age/grade model example, with 10 100 x 100 matrix mation can be de	bined age/grade mode fort. It requires a to classify EODs, se This does produce ad gement, such as the on separation rates. has been the unmanag age groups and 10 g in a combined model rived from a simplif age and grade groupi	data input that is parations, and product of age on parational information impact of age on paratical to the determinant of a larger rade levels (which). Graphic III she ied model that hand	s much more comp motions according on that should be romotion rates a he use of the co e matrix dealing would require a lows that useful	g to e of nd the mbined f, for infor-	
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